

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247651

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90935 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7469.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

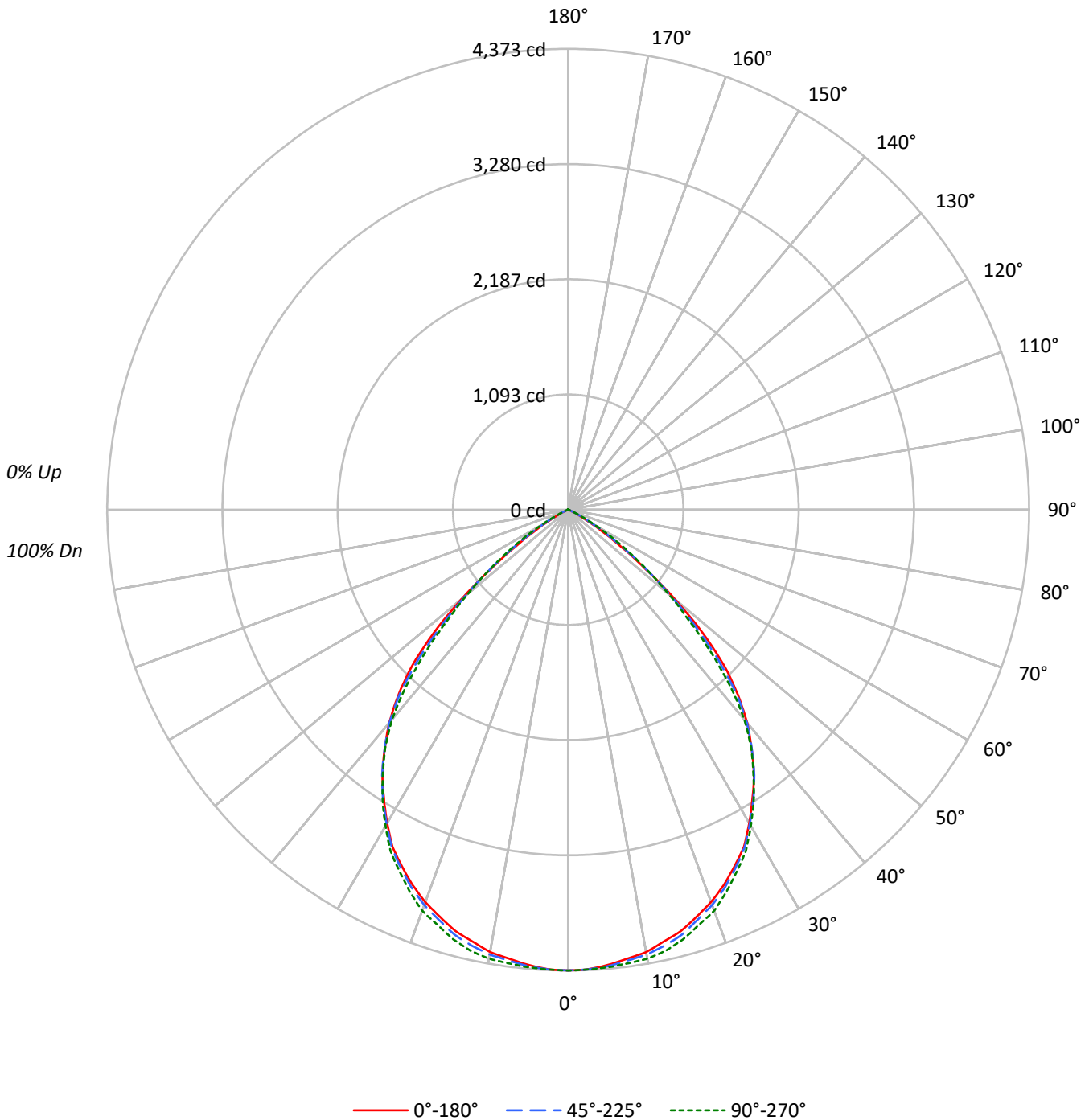
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	134853	134853	134853
5°	134239	134598	134923
10°	133477	134197	135462
15°	132131	133264	134707
20°	130018	130963	132886
25°	126998	127682	128829
30°	122302	122612	123395
35°	115669	115850	115379
40°	106291	106174	104705
45°	91396	87672	83651
50°	63545	61285	59577
55°	33155	36042	38160
60°	13445	15875	18422
65°	4276	5253	5604
70°	604	343	171
75°	0	0	0
80°	1527	337	515
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.0	5.5
10°-20°	1175.3	15.7
20°-30°	1726.5	23.1
30°-40°	1911.5	25.6
40°-50°	1523.4	20.4
50°-60°	624.2	8.4
60°-70°	91.9	1.2
70°-80°	1.3	0.0
80°-90°	1.9	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3314.8	44.4
0°-40°	5226.3	70.0
0°-60°	7373.9	98.7
0°-90°	7469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4373	4373	4373	4373	4373	
5°	4337	4344	4348	4355	4359	411
15°	4139	4142	4174	4214	4220	1165
25°	3733	3729	3753	3775	3786	1717
35°	3073	3069	3078	3074	3065	1910
45°	2096	2077	2010	1935	1918	1573
55°	617	638	670	709	710	593
65°	59	62	72	79	77	78
75°	0	0	0	0	0	3
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4373.2	4373.2	4373.2	4373.2	4373.2
2.5°	4365.6	4366.5	4366.5	4361.7	4367.5
5°	4336.7	4344.4	4348.3	4355.0	4358.8
7.5°	4296.4	4294.5	4314.6	4338.7	4341.5
10°	4262.8	4258.9	4285.8	4317.5	4326.2
12.5°	4196.5	4201.3	4235.9	4268.5	4285.8
15°	4138.9	4141.7	4174.4	4213.8	4219.6
17.5°	4049.5	4058.2	4080.3	4121.6	4129.3
20°	3962.1	3966.0	3990.9	4024.6	4049.5
22.5°	3855.5	3862.2	3881.4	3911.2	3923.7
25°	3732.6	3728.7	3752.7	3774.8	3786.4
27.5°	3607.7	3601.0	3619.2	3640.4	3650.9
30°	3434.8	3432.9	3443.5	3456.9	3465.5
32.5°	3253.3	3258.1	3268.6	3272.5	3275.4
35°	3072.7	3068.9	3077.5	3073.7	3065.0
37.5°	2858.5	2861.4	2861.4	2857.5	2853.7
40°	2640.5	2643.3	2637.6	2616.4	2601.1
42.5°	2385.0	2386.9	2357.1	2310.0	2278.3
45°	2095.8	2076.6	2010.4	1935.4	1918.2
47.5°	1731.8	1699.2	1630.0	1573.3	1553.2
50°	1324.6	1300.5	1277.5	1247.7	1241.9
52.5°	928.8	941.3	950.0	959.6	956.7
55°	616.7	637.8	670.4	708.9	709.8
57.5°	370.8	394.8	436.1	478.3	498.5
60°	218.0	227.6	257.4	289.1	298.7
62.5°	118.1	121.0	134.5	166.2	161.4
65°	58.6	61.5	72.0	78.8	76.8
67.5°	28.8	31.7	33.6	43.2	35.5
70°	6.7	1.9	3.8	4.8	1.9
72.5°	0.0	0.0	1.9	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.9	0.0	0.0	0.0	3.8
80°	8.6	5.8	1.9	1.9	2.9
82.5°	2.9	1.0	2.9	1.0	0.0
85°	0.0	0.0	0.0	3.8	0.0
87.5°	4.8	1.0	1.0	2.9	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)